TOTAL SHEETS 18

5102

WINNERAGO

The diameter of this part is equal or larger than the The diameter of this part diameter of bar spliced. is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR

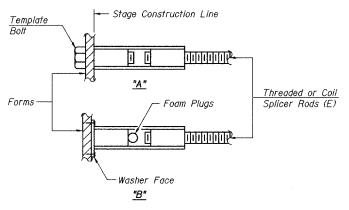
** ONE PIECE

— Wire Connector

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

(Tension III Kipo)

Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t

Where fy = Yield strength of lapped reinforcement bars in ksi.

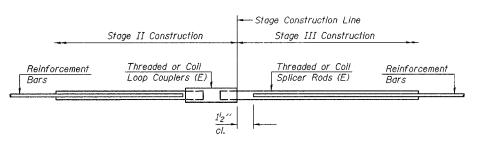
fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

A₁ = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

				
BAR SPLICER ASSEMBLIES				
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements		
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension	
#4	1'-8''	14.7	5.9	
#5	2'-0''	23.0	9.2	
#6	2'-7"	33.1	13.3	
#7	3′-5″	45.1	18.0	
#8	4′-6′′	58.9	23.6	
#9	5′-9′′	75.0	30.0	
#10	7'-3''	95.0	38.0	
#11	9'-0''	117.4	46.8	

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

Bar Size	No. Assemblies Required	Location
#5	16	North Abutment
#5	16	South Abutment

Corporate License Number 184-001-084

BAR SPLICER ASSEMBLY DETAILS

CENTRAL AVENUE BRIDGE OVER NORTH FORK OF KENT CREEK F.A.U. ROUTE 5102 SECTION 03-00336-00-BR WINNEBAGO COUNTY STRUCTURE NUMBER 101-3023 STATION 13+45



03R1809 4/28/06